



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION : BYATARAYANPURA

SUB DIVISION: BYATARAYANPURA

Name of work: Maintenance of water supply works
to existing borewells at Rachenahalli Village
Surrounding area in Ward No. 06 Byatarayanapura
Sub Division

Estimated Cost : Rs 20.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. **2000000.00**

me of Work: Maintenance of water supply works to existing borewells at at Rachenahalli Village surrounding area in Ward No. 06 Byatarayanapura Sub Division

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
A) Rewinding								
Labour Charges of lifting of non functioning submersible Pump set along with cable and GI Pipes (BWSSB SR 14-15, P-558 I-1(i))	Each Length	2X35	50.00			3500	109.00	381500.00
Transportation of pumping machineries (P. 56 / I. 10.3.19) PRED SR (2012-13)	Each	35				35	900.00	31500.00
Rewinding of Submersible Pump Sets								
(BWSSB SR 14-15 P-58 I-A) 10 HP	No.	6				6	4785.00	28710.00
(BWSSB SR 14-15 P-58 I-A) 7.5 HP	No.	8				8	3822.00	30576.00
(BWSSB SR 14-15 P-58 I-A) 12.5 HP	No.	10				10	5885.00	58850.00
(BWSSB SR 14-15 P-58 I-A) 15.0 HP	No.	11				11	5800.00	63800.00
B) Replacement of Motor Parts:								
Pump Bowls (BWSSB SR 14-15 P-58 I-B)	No.	175				175	308.00	53900.00
Intermediate Piece (I.P) With IP Leaded Bronxe bush (BWSSB SR 14-15 P-58 I-B2)	No.	35				35	715.00	25025.00
Upper Flange (BWSSB SR 14-15 P-59 I-C3)	No.	35				35	330.00	11550.00
Lower Housing (BWSSB SR 14-15 P-59 I-C4)	No.	35				35	539.00	18865.00
Guide vane (BWSSB SR 14-15 P-58 I-B5)	No.	130				130	192.50	25025.00
Impeller Shell moulded with aluminium Bronze) (BWSSB SR 14-15 P-58 I-B6)	No.	35				35	264.00	9240.00
Discharge outlet (D.O) Bearing D.O Steel Bush P. (BWSSB SR 14-15 P-58 I-B7)	No.	40				40	522.50	20900.00
Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) BWSSB SR 14-15 P-58 I-B10)	No.	35				35	660.00	23100.00
Pump Couping (Stainless Steel) (BWSSB SR 14-15 P-58 I-B12)	No.	35				35	341.00	11935.00
Stud and Nuts (BWSSB SR 14-15 P-59 I-C8)	Each	80				80	88.00	7040.00
Motor Base With Pin (BWSSB SR 14-15 P-59 I-C11)	Each	20				20	407.00	8140.00
Starter (with one year Guarantee) P No. 55 / I No. 10.3.3 PRED SR (2012-13)	No.	20				20	5050.00	101000.00
Rotor (with one year Guarantee) P No. 55 / I No. 10.3.6) PRED SR (2012-13)	No.	25				25	4700.00	117500.00
Carbon Housing P. No. 56 / I No.10.3.12 PRED SR (2012-13)	No.	35				35	475.00	16625.00
Thrust bearing block assembly complete with Segment bearing pad.P. No. 55 / I No.10.3.13 PRED SR (2012-13)	No.	35				35	1150.00	40250.00

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Oil Seal P. No. 54 / I No.10.2.3 PRED SR (2012-13)	No.	35				35	125.00	4375.00
Oil Seal Steel Bush P. No. 54 / I No. 10.2.4 PRED SR (2012-13)	No.	35				35	150.00	5250.00
D.O Bearing P. No. 44 / I No. 10.2.7 PRED SR (2012-13)	No.	40				40	285.00	11400.00
Steel Bush P. No.55 / I No. 10.2.9 PRED SR (2012-13)	No.	160				160	150.00	24000.00
Allen Screw P. No.44 / I No. 10.2.9 RDPR SR (2012-13)	No.	95				95	25.00	2375.00
Pump Key (Stainless Steel) P. No. 45 / I No. 10.2.11 RDED SR (2012-13)	No.	25				25	125.00	3125.00
Non – return valve (NRV) assembly complete with rubber 'O' Ring P. No. 55 / I No. 10.2.14 PRED SR (2012-13)	No.	20				20	1350.00	27000.00
Cable Guard P. No. 55 / I No. 10.2.15 PRED SR (2012-13)	No.	35				35	150.00	5250.00
Strainer P. No. 45 / I No. 10.2.15 RDED SR (2012-13)	No.	35				35	150.00	5250.00
Brass Filter P. No. 55 / I No. 10.2.17 PRED SR (2012-13)	No.	35				35	250.00	8750.00
Labour Chargesw (Over Hauling Only) P. No. 45 / I No. 10.2.18 PRED SR (2012-13)	No.	35				35	556.00	19460.00
Re-erection charges of pumping machineries including overhauling and pointing P. No. 56 / I No. 10.3.20 PRED SR (2012-13)	Each	35				35	950.00	33250.00
Lock Ring P. No. 45 / I No. 10.3.11 PREC SR (2012-13)	Each	40				40	85.00	3400.00
a) Carbon Housing P. No. 46 / I No. 10.3.12 APRDED SR (2012-13)	Each	35				35	475.00	16625.00
Top Carbon/Ferrodo padding P. No. 46 / I No. 10.3.12 APRDED SR (2012-13)	Each	25				25	150.00	3750.00
Bearing (Gunmetal) Centrifugal) Cast Aluminium Bronxe, Beaing bush P. No. 46 / I No. 10.3.16 APRDED SR (2012-13)	Each	30				30	400.00	12000.00
Circillps P. No. 45 / I No. 10.3.17 PREC SR (2012-13)	Each	40				40	50.00	2000.00
Genaral Itmes								
Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No. 32/I No 3b KPWD Electrical SR 2010-11	No.							
33 Amps		30	3.00			90.00		
						90.00	150.00	13500.00
Threading of GI Pipes 50mm Dia P. No. 15 / I No.3.11.6 PRED SR (2012-13)		35X40				1400.00	25.00	35000.00

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Supplying of submersible pump cable 1X3X10.0 Sq.mm (Page No. XLVII, SI NO. 8, PWD SR-2018-19)	Mtr	1	1200.00			1200.00	144.00	172800.00
Supplying and fixing MCB (P.NO - XLVII, SL.NO - 19, PWD SR 18-19)	No's	30	1.00			30.00	900.00	27000.00
Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 6, I.NO - 2.3, PWD SR 18-19)	Cum							
		1	710.00	0.45	0.75	239.63		
						239.63	316.94	75947.00
Basic Rate	299.00							
Add 6% Area Weightage	17.94							
	316.94							
Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm ² including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 96, I.NO - 13.73.2, PWD SR 18-19)	Mtr							
75 mm dia 6 KSC PVC pipe		1	710.00			710.00		
						710.00	394.32	279967.00
Basic Rate	372.00							
Add 6% Area Weightage	22.32							
Total	394.32							
Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 7, I.NO - 2.11, PWD SR 18-19)	Cum							
						239.63	128.26	30734.00
Basic Rate	121.00							
6% area weightage	7.26							
Total	128.26							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Supplying & delivery of brand 50mm Gate Valve (PWD SR 18-19, P.NO.XLVII Sl.no, 15	No's							
		10				10	1800.00	18000.00
Total of Other SR Items including GST Unit Rate SI No. 1 to 42)								1320791.00
Total of PWD SR 2018-19 Items (SL no. 43 to 48)								604448.00
12% GST For PWD SR-18-19 Items only								72534.00
Miscellaneous and Unforeseen Charges	L/S							2227.00
							Total	2000000.00

CERTIFICATE :

The work spot has been inspected and the work is found necessary.
This estimate is prepared as per PWD SR 2018-19, PRED S.R. of Rural Engineering Department
The provisions were made in this estimate are necessary and adequate.
This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division
Bangalore-24

Executive Engineer

Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval

Accorded For Rs. 20.00 lakhs
Head of A/C. P-1771
CER NO : AS/11410 Dt: 20/03/2020

TA

CE (YNK)

TECHNICAL SANCTION

Accorded For Rs. 20.00 lakhs only
Head of A/C. P1771, PWD work
Div. Ref. No. 14/20-21 Date 24/4/2020

AE

EE(BTP)